

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Qinlei Wang on 1/27/11.

The application has been amended as follows:

IN THE CLAIMS

Claim 21 has been amended as described below.

21. ~~An apparatus~~ A system for transmitting ~~inverse subband processed combined~~ data signals from at least one spatial diversity transmitter simultaneously to a plurality of receiving user terminals, each having with a spatial diversity receiving capability device, the ~~system~~ apparatus comprising:

at least one spatial diversity transmitter;

circuitry configured to divide data signals into streams of sub-user data sub-signals;

circuitry configured to determine combined data signals in the at least one spatial diversity transmitter, said combined data signals being transformed versions of said streams of data sub-signals, said determining comprising filtering said streams of data sub-signals with a filter so designed that at least one spatial diversity device of the receiving user terminals only receives data sub-signals being specific for the corresponding receiving user terminal and having interference between at least two streams of the plurality of streams of sub-user data sub-signals, said filtering being specific for the corresponding receiving user terminal;

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~~comprising a filter, said combined data signals being transformed versions of said streams of data sub signals;~~

circuitry configured to inverse subband process said combined data signals; and

circuitry configured to transmit, simultaneously to the plurality of receiving terminals, said inverse subband processed combined data signals with said spatial diversity transmitter; and device;

circuitry configured to simultaneously on each of the plurality of receiving terminals:

receive data signals by the spatial diversity device of the receiving terminal, said received data signals being at least a function of said inverse subband processing of said combined data signals;

determine on the receiving terminal estimates of said data sub-signals from said received data signals;

process, on the receiving terminal, said estimates of the sub-user data sub-signals to eliminate the interference between at least two streams of the plurality of streams; and

collect by the receiving terminal said estimates of said data sub-signals into estimates of said data signals.

~~wherein the combined data signals are determined by filtering said streams of data sub signals with the filter so designed that, when the inverse subband processed combined data signals are transmitted simultaneously to the plurality of receiving terminals, at least one spatial diversity device of the receiving user terminals only receives data sub signals being specific for the corresponding receiving user terminal and having interference between at least two streams of the plurality of streams of sub user data sub signals, said filtering being specific for the corresponding receiving user terminal.~~

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 571-272-3017. The examiner can normally be reached on Monday-Friday 8:30 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ghayour Mohammed can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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